

Appl. No.: 10/755,638
TC/A.U.: 3711 Docket No.: B03-85
Reply to Office Action of August 16, 2005

LISTING OF CLAIMS

Please amend the claims as follows:

1. (Canceled).
2. (Canceled).
3. (Currently amended) The golf ball of claim [[7]] 18, wherein the multi-olefin is conjugated.
4. (Currently amended) The golf ball of claim [[7]] 18, wherein the multi-olefin has about 4 to about 14 carbon atoms.
5. (Currently amended) The golf ball of claim [[7]] 18, wherein the iso-olefin has about 4 to about 7 carbon atoms.
6. (Currently amended) The golf ball of claim [[7]] 18, wherein the elastomeric polymer is halogenated, sulfonated, or both.
7. (Canceled).
8. (Currently amended) A golf ball comprising a cover layer encasing a subassembly, the subassembly comprising a barrier layer encasing a core, wherein the barrier layer is formed from a composition comprising a filler dispersed in a liquid or solvent-borne polymer of multi-olefin, iso-olefin, or a combination thereof, wherein the polymer comprises branched styrenic blocks, and wherein the subassembly has a Shore D hardness of less than about 60.
9. (Currently amended) The golf ball of claim [[7]] 18, wherein the composition further comprises at least one polymer selected from a group consisting of vinylidene chloride polymers, double-bond vulcanizable rubber, and ionomers.

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10. (Currently amended) The golf ball of claim ~~[[7]]~~ 18, wherein the composition has a moisture vapor transmission rate of about 0.001 grams·mm/m²·day to about 0.6 grams·mm/m²·day.
11. (Currently amended) The golf ball of claim ~~[[7]]~~ 18, wherein the composition is a dynamically vulcanizable thermoplastic elastomer blend adhesive to diene rubbers.
12. (Currently amended) The golf ball of claim ~~[[1]]~~ 18, wherein the polymer has a molecular weight of about 5,000 to about 500,000.
13. (Currently amended) The golf ball of claim ~~[[7]]~~ 18, wherein the composition forms a tortuous path against moisture vapor encroachment.
14. (Currently amended) The golf ball of claim ~~[[7]]~~ 18, wherein the composition is cured by infra red radiation or a combination of infra red and ultra violet radiations.
15. (Currently amended) The golf ball of claim ~~[[7]]~~ 18, wherein the polymer comprises about 30% to about 0.2% of the multi-olefin and about 70% to about 99.8% by weight of the iso-olefin.
16. (Currently amended) The golf ball of claim ~~[[7]]~~ 18, wherein the polymer is amorphous and non-polar.
17. (Currently amended) A golf ball comprising a cover layer encasing a subassembly, the subassembly comprising a barrier layer encasing a core, wherein the barrier layer is formed from a composition comprising a filler dispersed in a liquid or solvent-borne polymer of multi-olefin, iso-olefin, or a combination thereof, wherein the polymer is a highly paraffinic hydrocarbon polymer composed on long straight chain molecules containing only chain-end olefinic bonds, wherein the subassembly has a Shore D hardness of greater than about 50.
18. (Currently amended) ~~The golf ball of claim 7~~ A golf ball comprising a cover layer encasing a subassembly, the subassembly comprising a barrier layer encasing a core, wherein the

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barrier layer is formed from a composition comprising a filler dispersed in a liquid or solvent-borne elastomeric polymer of multi-olefin, iso-olefin, or a combination thereof;

wherein the filler is selected from a group consisting of leafing aluminum, mica flakes, micaceous iron oxide flakes, aluminum flakes, ceramic flakes, graphite flakes, and mixtures thereof; and

wherein the elastomeric polymer is halogenated, and comprises at least one of the following:

less than about 3% reactive halogen;

less than about 1 halogen atom per double bond;

a benzylic bromine functionality; or

a branched styrenic block,

wherein the subassembly has a Shore D hardness of less than about 60.

19. (Currently amended) The golf ball of claim 7 A golf ball comprising a cover layer encasing a subassembly, the subassembly comprising a barrier layer encasing a core, wherein the barrier layer is formed from a composition comprising a filler dispersed in a liquid or solvent-borne elastomeric polymer of multi-olefin, iso-olefin, or a combination thereof;

wherein the filler is selected from a group consisting of leafing aluminum, mica flakes, micaceous iron oxide flakes, aluminum flakes, ceramic flakes, graphite flakes, and mixtures thereof; and

wherein the elastomeric polymer is halogenated, and comprises at least one of the following:

less than about 3% reactive halogen;

less than about 1 halogen atom per double bond;

a benzylic bromine functionality; or

a branched styrenic block,

wherein the subassembly has a Shore D hardness of greater than about 50.

20. (Canceled).